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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,039	09/25/2006	Takashi Chuman	Q97427	8964
23373 7590 04/30/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			RALEIGH, DONALD L	
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER	
			2879	
			MAIL DATE	DELIVERY MODE
			04/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/594,039	CHUMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	DONALD L. RALEIGH	2879			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>25 Sec</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice of the practice	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 6-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 6 and 8-13 is/are rejected. 7) Claim(s) 7 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to be corrected.	r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Example 11.	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/25/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Art Unit: 2879

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Response to Amendment

The Amendment, filed on September 25, 2006 has been entered and acknowledged by the Examiner.

Cancellation of claims 1-5 has been entered.

Claims 6-13 are pending in the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6, 8-9, and 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al (US PG Pub. No. 2004/0004443).

Regarding Claim 6, Park discloses a subpixel (Paragraph [0031], line 8 (cell)) forming a pixel (8) of a color display screen (Para. [0012] lines 6-8), comprising: one display portion (cell); and a plurality of thin film transistors for driving the display portion

(Paragraph [0031], lines 9-15, (first, second), wherein the plurality of thin film transistors are arranged such that their channels are in parallel to each another (Para. [0031], lines 13-15).

Regarding Claims 8 and 9, Park discloses wherein the thin film transistors are organic thin film transistors or amorphous Si thin film transistors.(Paragraph [0040], lines 1-3 (amorphous)).

Regarding Claims 10 and 11, Park discloses wherein the display portion is an organic electroluminescence(EL) element. (Paragraph [0031], lines 3-4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park in view of Kuwabara et al (US PG Pub. No. 2003/0141504) and further in view of Veres et al (US PG Pub. NO. 2006/0105492).

Regarding Claims 12 and 13, Park fails to exemplify the subpixel wherein the channels of the plurality of thin film transistors are subjected to a rubbing process.

Kuwabara teaches in Paragraph [0234], lines 1-4, subjecting the active matrix substrate which includes the TFT's (line 1) to a rubbing process.

Furthermore, Veres teaches that the rubbing process is used to induce the orientation of the organic semiconductor in order to enhance carrier mobility.(Paragraph [0055], last four lines).

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to incorporate the rubbing process as taught by Kuwabara into the TFT channel of Park to induce the orientation of the organic semiconductor in order to enhance carrier mobility as taught by Veres.

Allowable Subject Matter

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding Claim 7, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set fourth in Claim 7, and specifically comprising the limitation of "wherein provided that a length of one side of the subpixel is 1, a channel width of at least one of the plurality of thin film transistors is 0.4 or more".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONALD L. RALEIGH whose telephone number is (571)270-3407. The examiner can normally be reached on Monday-Friday 7:30AM to 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Donald L Raleigh/ Examiner, Art Unit 2879 Application/Control Number: 10/594,039 Page 6

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/Nimeshkumar Patel/ Supervisory Patent Examiner, Art Unit 2879